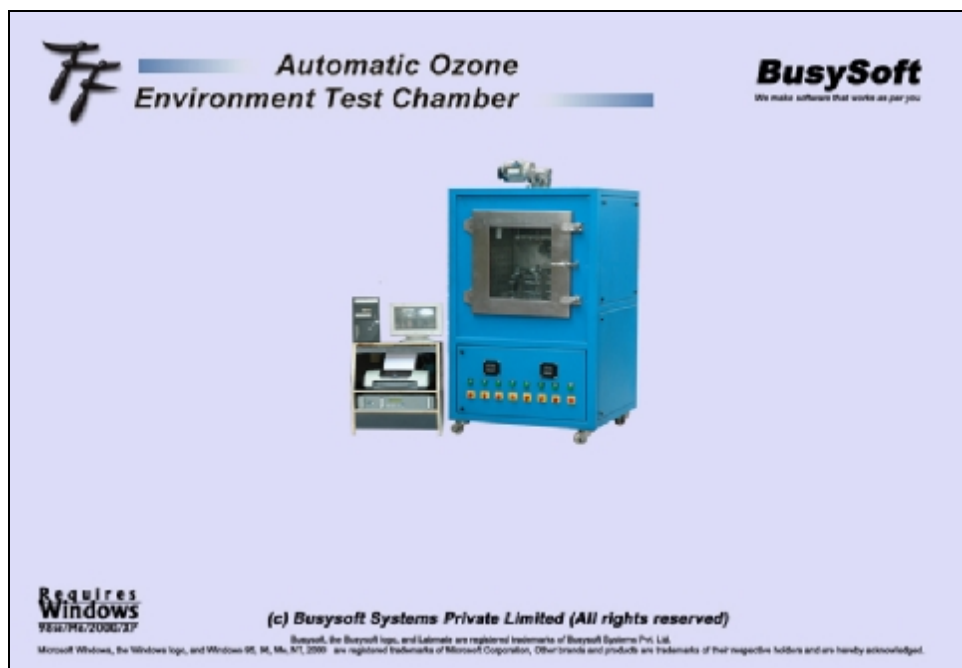


Ozonesoft®

Users Guide



April 2007

Future Foundation

Address: Mercury House 16 Community Center,
Wazirpur Industrial Area Delhi 110052

Phone: (O)+91-011-27428044 **Fax:** +91-011-27373011 **Mobile:** 9810068112

email: ffinstruments@hotmail.com **Web:** www.ffinstruments.com

Ozonesoft User Manual

Copyright © 2001 Busysoft Systems Pvt. Ltd. All rights reserved.

No part of this publication may be reproduced, in any form or by any means, without prior written permission from Busysoft Systems Pvt. Ltd.

Busysoft, Rheosoft, Ozonesoft are registered trademarks, and are used by Busysoft Systems Pvt. Ltd. Microsoft, Windows, Windows NT, Windows 2000, Windows XP and their respective logos are registered trademarks of Microsoft Corporation in the United States and other countries. All other product names mentioned in this guide may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

Disclaimer

Busysoft makes no representations or warranties with respect to the contents of this publication and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. Further, Busysoft reserves the right to revise this publication without notice.

Warranty

The software and related documentation are provided "AS IS" and without warranty of any kind. Busysoft expressly disclaims all warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Busysoft does not warrant that the functions contained in the software will meet your requirements, or that the operation of the software will be uninterrupted or error-free, or that defects in the software will be corrected. Furthermore, Busysoft does not warrant or make any representations regarding the use or the results of the use of the software or related documentation in terms of their correctness, accuracy, reliability, or otherwise. No oral or written information or advice given by Busysoft or a Busysoft authorized representative shall create a warranty or in any way increase the scope of this warranty. Should the software prove defective, you (and not Busysoft or a Busysoft authorized representative) assume the entire cost of all necessary servicing, repair, or correction.

Under no circumstances, including negligence, shall Busysoft be liable for any incidental, special, or consequential damages that result from the use or inability to use the software or related documentation, even if Busysoft or a Busysoft authorized representative has been advised of the possibility of such damages. In no event shall Busysoft total liability to you for all damages, losses, and causes of action (whether in contract, tort (including negligence) or otherwise) exceed the amount paid by you for the Software.

Quick guide

Installation

Install Ozone Monitor Machine
Install Computer
Install a printer

Install and start software

Install **Ozonesoft software**
Install **ADC connecting device** and **link it with Ozone Monitor**
Start software
Set parameters with **Setup** option
Change company information

Software implementation

Add required specimens from **Specimen details** option

Daily running

Run testing on the above compounds from **Test Details**
Print test report
Add more tests if required and run tests

Periodic (Week, Month, Year, Period)

Take backup/maintenance

Starting Ozonesoft

On double clicking Ozonesoft icon on the desktop screen following windows appears.



Login on Ozone_Monitor

User ID

User Password

Note: When starting the software for the first time a screen may appear showing that a backup/compact repair of database is due. Click on OK or cancel in all cases. Please read section on this in Setup option chapter.

This is main login screen of Ozonesoft. All authorized user are allotted a user id and a password. Type the user ID and password as allocated by the Supervisor of the software. (Manager who allots the software security options to each user.)

Type the following information in the windows.

User ID ID of the user who is going to work on the software
Password Type the required password.

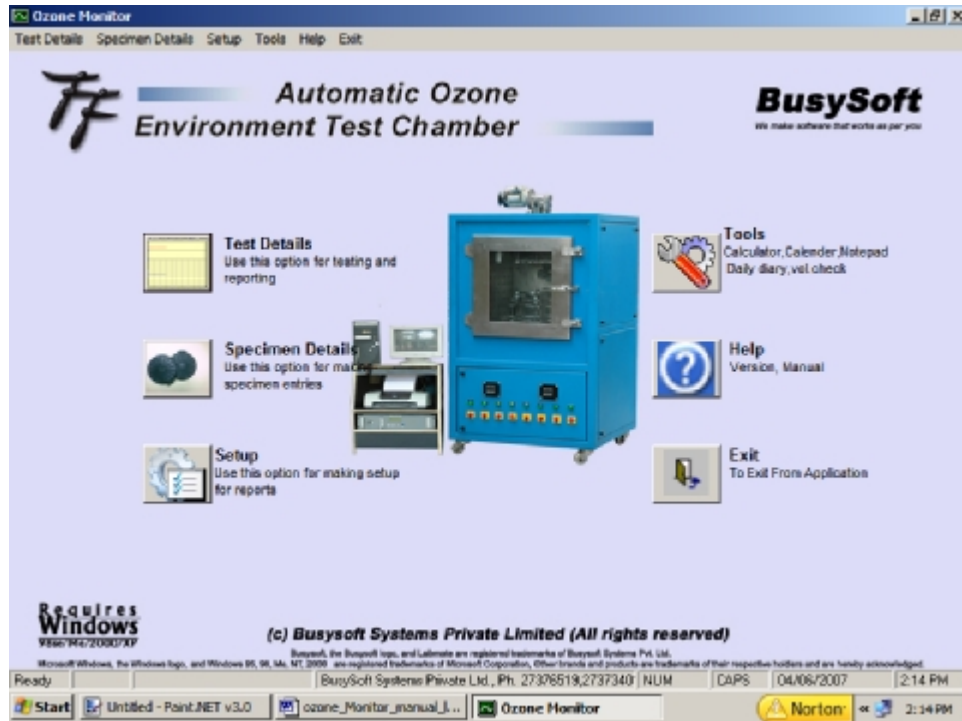
Note: By default User Id is set as MGR and Password is also set as MGR.

Note: If you type a wrong ID or password the software will not allow you to enter into the software functions.

Note: All the security function will be set as per your security level set by the supervisor.

Click on Ok after typing the user id and password. Following screen appears.

Main Menu



This is the main menu of Ozonesoft software. The options in the main menu of the software are.

- Test Details:** This is the main option. All Ozone Monitor tests can be conducted using this option. This option stores specimen details along with graphs and result analysis.
- Specimen Details:** This option stores list of all the stocks. The details of stock specimen, which needs to be tested are stored in this option.
- Setup:** This option is for master setup, Graph setup, Printer and reporting setup, security setup and other master information setup.
- Tools:** This option is for working with Notepad, Calculator and Calendar.
- Help** This option shows the manual and details about the ozonesoft.
- Exit** Quit from program.

Test details

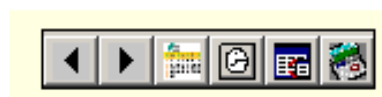
On clicking **Test Details button** following screen appears. This is list of the entire tested specimens in order of Serial no. The cursor is placed on the first test.

Sr.No.	Test Date	Static Test	Dynamic Test	Ozone Concentration	Chamber Temp	Pre-Test Conditioning	Test Result (HRS)
2	20/07/2005	Yes	Yes	25	100	Yes	1
3	20/07/2005	Yes	No	25	100	Yes	
4	26/07/2005	Yes	No	25	100	No	
5	03/08/2005	Yes	No	50	100	No	11
6	03/08/2005	Yes	No	25	100	No	40
7	03/08/2005	Yes	No	25	100	No	
8	03/08/2005	Yes	No	25	100	No	0
9	03/08/2005	Yes	No	25	100	No	50
10	05/08/2005	Yes	No	25	50	No	
11	05/08/2005	Yes	No	25	30	No	19
12	05/08/2005	Yes	No	25	30	No	23
13	08/02/2006	Yes	No	50	40	No	10
14	08/02/2006	Yes	No	50	40	No	1
15	09/02/2006	Yes	No	50	40	No	10
16	10/02/2006	Yes	No	50	40	No	13


Test details and options


The screen has three main options


Period: This option helps in choosing period of conducted tests for showing list.

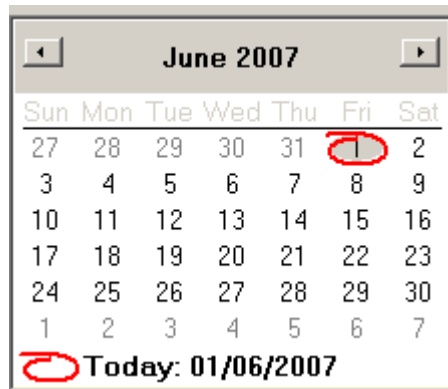



Various buttons in the option are


Previous date:  The option shows list of tests for previous date.


Next Date:  The option shows list of specimen for Next date

For a Date:  Shows list of records for a particular date. The screen shows calendar to Choose the date. Select the required date from the calendar and click OK.



For Today:  Shows list of records for a today

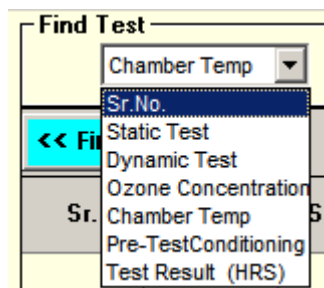
Select All:  This option shows list of records of all dates.

For a period:  This option Shows list of records for a particular period. The screen shows from date and to date. Select or type the required period and click OK

Advance Search: This option helps in searching the conducted tests details on various methods.

The details in this option are

Search on: You can search the details on the basis of Sr. No., Static test, Dynamic test, Ozone concentration, Chamber Temp, Pre-testing conditioning, and Test Result (HRS).



Search What: Type the required details to be searched. The required search will depend upon above search on parameter. For example to search details of all the specimen tested with static test, you should select static test as above and then type "Yes" in the text box.

List of Tests (records): This screen is the list of all tested specimen. The list contains following columns.

Sr. No.	This is a running serial number of the test.
Test Date	Date of testing
Static Test	Type of test included in the test. Select "Yes" in case static test is done in testing.
Dynamic Test	Type of test included in the test. Select "Yes" in case dynamic test is done in testing.
Ozone Concentration	Set ozone concentration for the testing.
Chamber Temp.	Temperature of the test
Pre-Test conditioning	Pre testing condition status. It can be "Yes" or "No".
Test Result Hrs.	This is period of test.

The options available under this option are

<u>Add</u>	Add a new test details for testing
<u>Select</u>	Select and shows the current test details and results
<u>Delete</u>	Delete the current test. You will be asked to reconfirm deletion.
<u>Comment</u>	Type a comment regarding your observation on the test if required.
<u>Close</u>	Close the option and go back to main menu.
<u>First</u>	Selects First test in the list.
<u>Last</u>	Selects Last test in the list.

Adding New Tests

Click on **Add** option as shown in Test list screen above. Following screen appears.

The screen contains three types of information. These are:

1. Test conditions
2. Static test Details: Specimens to be tested for static test
3. Dynamic test Details: Specimens to be tested for dynamic test

Following are the various parameters that are required to be filled.

Test Conditions

Test Serial No.

It is the test number of the test. It is allotted automatically. In the above screen this number is 29. You cannot change this number.

Test Date

It is the date of testing in dd/mm/yyyy (day/month/year) format. The box shows current date automatically. You cannot change the date.

Test Type

Select the test type as Static, Dynamic or both by clicking option as ☒.

Chamber Test Temp (°C)

It is the temperature of the chamber as per testing condition.

Note: This is only for recording purposes. No control is maintained on the heaters by this setting. The user must maintain a correlation between the two manually.

Ozone concentration (pphm)

This is set ozone concentration for the chamber. Select the concentration from the list or type if required.

%RH

It is set % Relative Humidity.

Preconditioning Test

It set as "Yes" or "N" by clicking option as ☒.

Static test Details

Rotating Carrier It set as “Yes” or “N” by clicking option as ☒.

Standard Test Method Type the test method.

Test Specimen Type the test specimen remarks.

On typing these basic details the cursor is placed at specimen details for each static frame. The machine contains 5 frames with 3 clamps each for specimen testing. A total of 15 specimens can be tested in one test. Type and select following details for each specimen to be tested.

Test Specimen Select the specimen from the list to keep at frame positions.

Batch No. Type the batch number of specimen.

Elongation % Type the elongation percentage.

Observation Time The screen contains 10 observations time periods in hours. Type the observation time periods as T1 to T10. It should be less than 200 Hrs.

The same information is to be repeated for each frame. Click on Save to save the data. The screen shows the details given as under.

Ozone Monitor: Tests Details

Test Condition
 Test Serial No: 13 Test Date: 08/02/2006 Test Type: ☒ Static ☐ Dynamic
 Chamber Test Temp (°C): 40 Ozone Concentration (pphm): 50 %RH: ☐ Pre-Test Conditioning

Static Test **Dynamic Test**

☐ Rotating Carrier
 Std. test Method: Test Specimen:

Frame	Specimen Name	Batch No.	Elongation(%)	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
1A	CLEANPLUS	A1	15	1	2	3	4	5	6	7	8	9	10
1B	CLEANPLUS	A2	15	1	2	3	4	5	6	7	8	9	10
1C	CLEANPLUS	A3	15	1	2	3	4	5	6	7	8	9	10
2A													
2B													
2C													
3A													
3B													
3C													
4A													
4B													
4C													
5A													
5B													
5C													

☒ Test completed

Ready NUM CAPS 02/05/2007 11:23 AM

Dynamic test Details

Ozone Monitor: Tests Details

Test Condition
 Test Serial No: 30 Test Date: 02/05/2007 Test Type: ☒ Static ☒ Dynamic
 Chamber Test Temp (°C): 55 Ozone Concentration (pphm): 50 %RH: 67 ☒ Pre-Test Conditioning

Static Test **Dynamic Test**

Std. test Method:
 Sample Elongation (%): Exposure Type: Continuous

Frame	Specimen Name	Batch NO.	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
1												
2												
3												
4												
5												
6												
7												
8												

☒ Test completed

Ready NUM CAPS 02/05/2007 10:36 AM

Std. Test Method

Type the standard test method.

Sample Elongation %

Type the elongation percentage.

Exposure Type

Select exposure type at continuous or intermittent.
 In case if intermittent following screen appears.

Intermittent Exposure

☐ Active-Inactive
 ☒ Inactive-Active
 Active Inactive

Select the type of exposure as Active-Inactive or Inactive-Active.

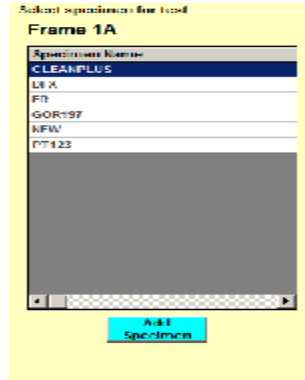
Exposure Time

Type the time period of Active and Inactive functions.

On typing these basic details the cursor is placed at specimen details for each dynamic frame. The machine contains 8 frames for specimen testing in one test. Type and select following details for each specimen to be tested.

Test Specimen

Select the specimen from the list to keep at frame positions.

**Batch No.**

Type the batch number of specimen.

Observation Time

The screen contains 10 observations time periods in hours. Type the observation time periods as T1 to T10.

The same information is to be repeated for each frame. Click on Save to save the data. The screen shows the details given as under.

Test Condition: Test Serial No. 28, Test Date: 03/05/2005, Test Type: ☒ Static, ☒ Dynamic, Chamber Test Temp (°C): 10, Ozone Concentration (pphm): 25, %RH: 3, ☒ Pre-Test Conditioning

Static Test: Std. test Method: 5, Sample Elongation (%): 5, Exposure Type: Intermittent

Dynamic Test: Intermittent Exposure: ☒ Active-Inactive, ☐ Inactive-Active, Active: 1, Inactive: 2

Frame	Specimen Name	Batch NO.	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
1	CLEANPLUS	2	1	2	3	4						
2												
3												
4												
5												
6												
7												
8												

Buttons: Add, Modify, Delete, Previous, Next, Close, Comment, Specimen, Run Testing, Redisplay Graph, Report, Result Modify, View Data

Status: Ready, NUM, CAPS, 02/06/2007, 11:11 AM

Following options are available.

Add

Add a new test details for testing

Modify

Select and shows the current test details and allows modification of the parameters.

Delete

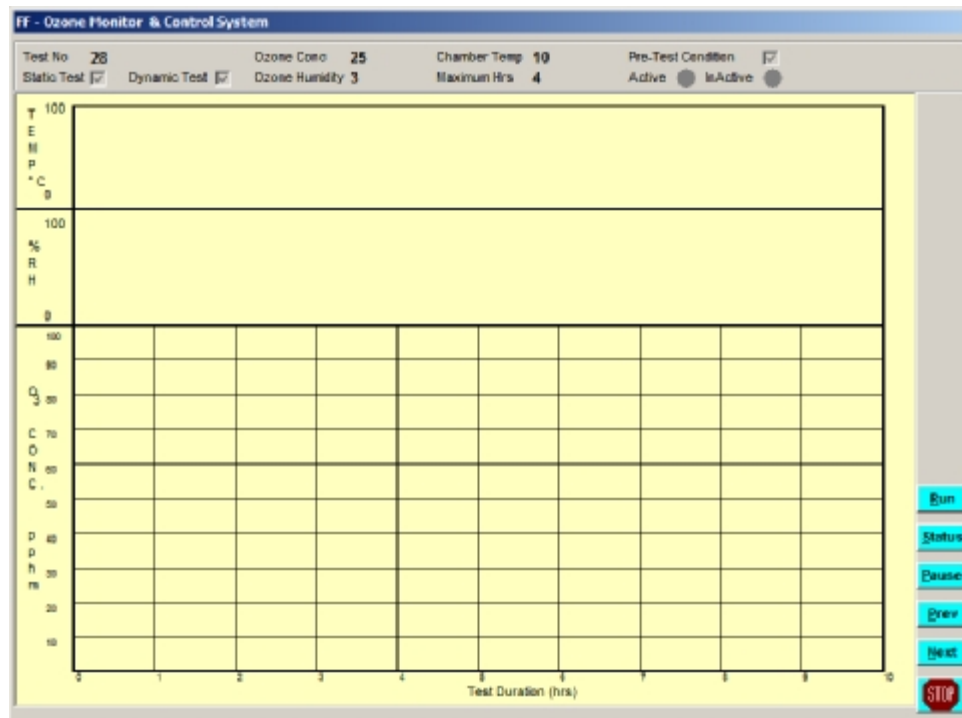
Delete the current test. You will be asked to reconfirm deletion.

<u>Previous</u>	shows previous test details
<u>Next</u>	shows next test details
<u>Close</u>	Close the option and go back to main menu.
<u>Comment</u>	Type a comment regarding your observation on the test if required.
<u>Specimen</u>	Add or modify or delete specimen details.
<u>Run Testing</u>	Start the test procedure
<u>Redisplay Graph</u>	Redisplay the test graph.
<u>Report</u>	Print Report of the tested specimens.
<u>Result Modify</u>	Allows to modify the tests results for each specimen.
<u>View data</u>	Shows captured data in a table.

Testing Specimen

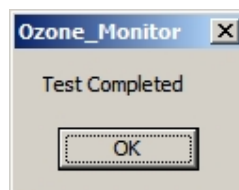
Loading specimen and testing

Click on **Run Testing** to test the specimen. Following screen appears.



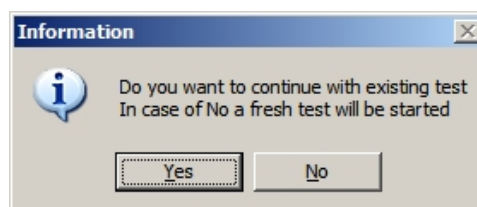
Prepare and load the specimen and press OK. The Ozone Monitor Machine will start functioning and a graph will appear on the screen.

Note: A completed test can not be retested. A message appears if a user tries to retest.



Click on **Ok** to continue

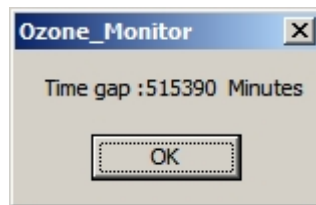
Note: If a test is part completed (has been paused in-between) following message appears.



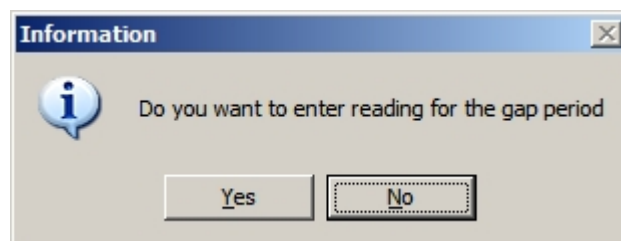
Click on 'Yes' if the test is to be continued.

Click on 'No' if the test is to be redone from the beginning. All the data is removed in case of "No". A screen appears for the confirmation of the same.

In case if test is restarted after a time gap following screen appears. This screen shows the time gap between the last reading and current time.



Click on **Ok** to continue. Following screen appears.



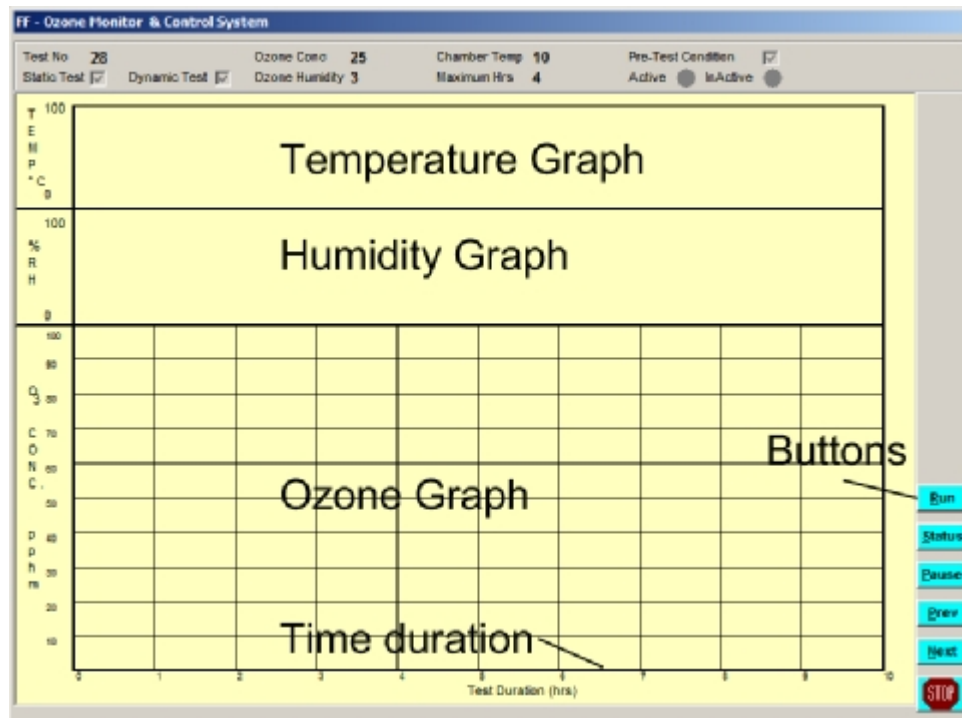
Click on "Yes" to type the readings for the gap of the period. Following screen appears. All the readings for the gap is to be filled in the missing data sheet shown below. Click on **Save** to save the data.

Fill missing data

Sr.No.	Time(In Min.)	Ozone Concentration	Chember Temperature	%RH	DateTime
793	792	51.00	28.91	.00	13/02/2006 6:28:05 PM
794	793	51.00	28.32	.00	13/02/2006 6:29:05 PM
795	794				13/02/2006 6:30:05 PM
796	795				13/02/2006 6:31:05 PM
797	796				13/02/2006 6:32:05 PM
798	797				13/02/2006 6:33:05 PM
799	798				13/02/2006 6:34:05 PM
800	799				13/02/2006 6:35:05 PM
801	800				13/02/2006 6:36:05 PM
802	801				13/02/2006 6:37:05 PM
803	802				13/02/2006 6:38:05 PM
804	803				13/02/2006 6:39:05 PM
805	804				13/02/2006 6:40:05 PM
806	805				13/02/2006 6:41:05 PM
807	806				13/02/2006 6:42:05 PM
808	807				13/02/2006 6:43:05 PM
809	808				13/02/2006 6:44:05 PM
810	809				13/02/2006 6:45:05 PM
811	810				13/02/2006 6:46:05 PM
812	811				13/02/2006 6:47:05 PM
813	812				13/02/2006 6:48:05 PM
814	813				13/02/2006 6:49:05 PM

Excel Save Cancel

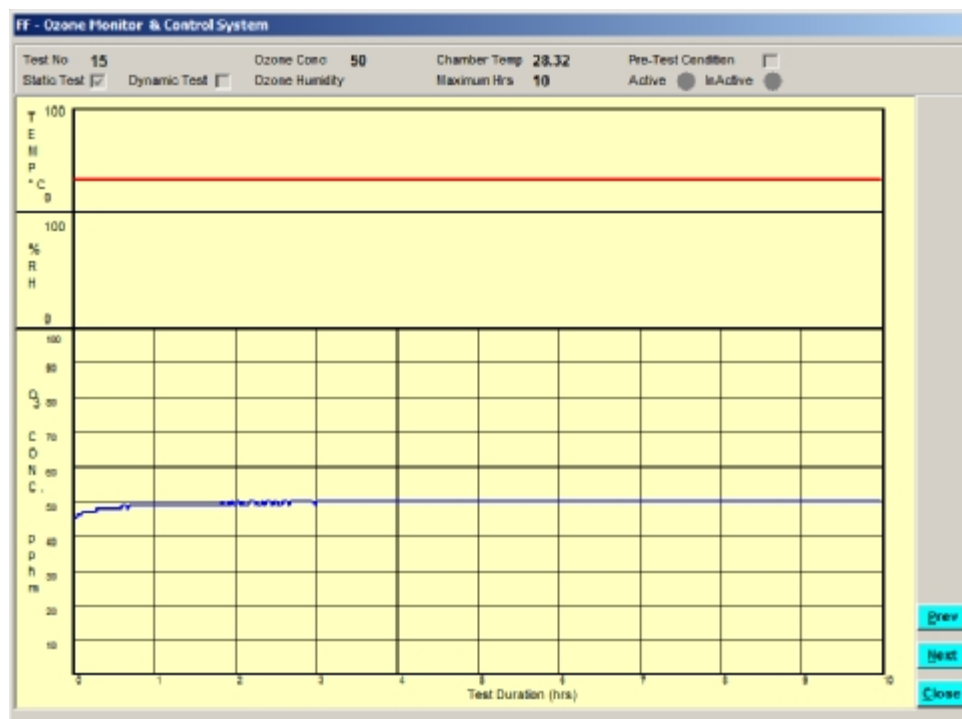
Following details are shown on the graph screen.









The graphs shows:

1. The time period in Hours on X-AXIS.
2. Ozone Values on Y-AXIS divided into 10 parts.
3. Humidity Values on Y-AXIS after ozone.
4. Temperature on Y-AXIS after humidity.

Click on **Stop** if you do not want to run the test. The screen shows the graph of the test.



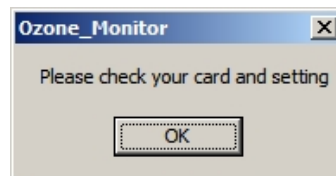
The graphs has following option buttons

	Start testing
	Shows test results status. Results can be modified using this option.
	Pause the test. The test is resumed by pressing this button again.
	Shows the graph of previous test duration.
	Shows the graph of previous next test duration
	Stops the testing.

Run

Prepare the specimen by loading it into Ozone Chamber. Click on this button to start recording the parameters.

Note: In case if following message appears, check the machine setup option given in setup chapter of this manual.



On completion of each test time duration following screen appears for recording test results.

Static Result		Test Serial No. 15	
Frame Name	Specimen Name	Elongation %	
1C	CLEANPLUS	15	
Interval Time (T1)		1(hrs)	
Crack Grade (1-Worst Crack) (10-No Crack)	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5		
	<input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9 <input checked="" type="radio"/> 10		
Remarks		<input type="text"/>	
<input type="button" value="Save"/>		<input type="button" value="Close"/>	

Select the **Crack Grade** and type **Remarks** if any. Click on **Save**. The test will continue for the next time interval. The same screen appears for each time interval.

Status

Click on this option to see the status of the old test results. You can also modify the test results of earlier recorded entries. All the test intervals, which are completed, are shown in green color.

Frame	Specimen Name	Procedure	Elongation(%)	11	12	13	14	15	16	17	18	19	20	21
1A	CLEANPLUS	1	15	1	2	3	4	5	6	7	8	9	10	11
1B														
1C														
2A														
2B														
2C														
3A														
3B														
3C														
4A														
4B														
4C														
5A														
5B														
5C														

Following options are available on this screen.

- OK** Click on this button to close the screen.
- Result Modify** Click on this button to modify the results.
Click on time interval result, which is to be modified. Following screen appears.

Frame Name	Specimen Name	Elongation %
1C	CLEANPLUS	15

Interval Time (T1) 1(hrs)

Crack Grade (1-Worst Crack) (10-No Crack)

Remarks

Save Close

Type the result and click on save.

Pause

Click on this option to pause the testing. You can start the testing again after resetting the machine.

Prev

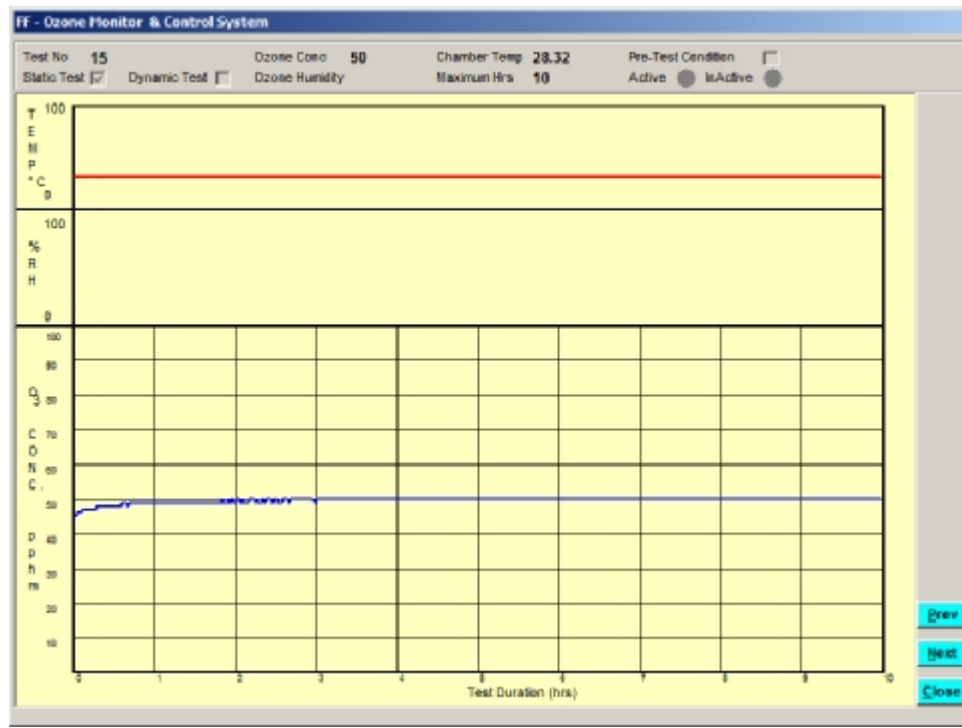
Click on this option to see the graph of previous time interval.

Next

Click on this option to see the graph of next time interval.

Redisplay Graph

Click on this option to show the graph of test. Following screen appears.



The screen has following options.

Prev

Click on this option to see the graph of previous time interval.

Next

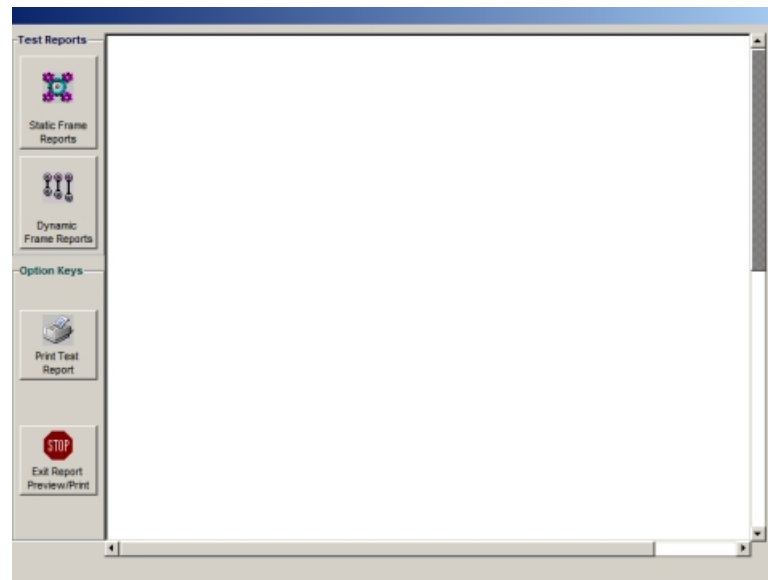
Click on this option to see the graph of next time interval.

Close

Click on this option to quit from the option.

Report

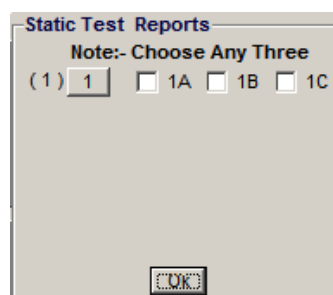
Click on this option to print report of the test. Following screen appears.



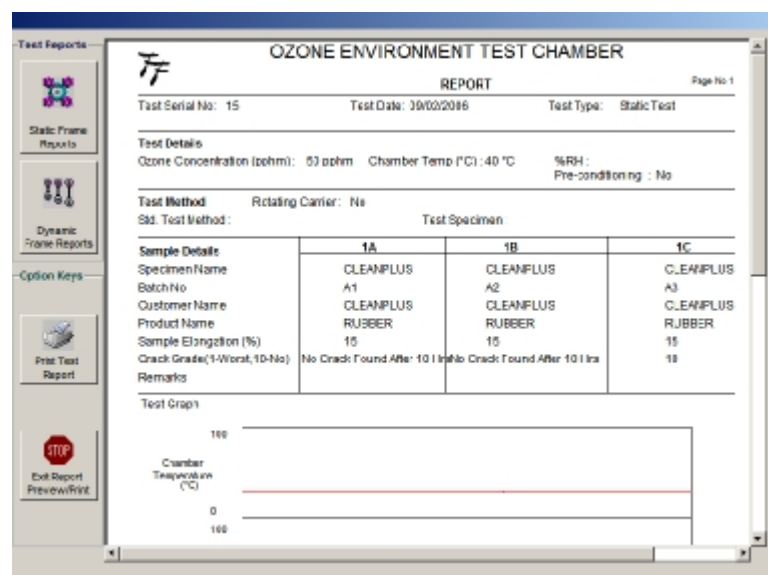
The options available on this screen for the report are:

Static Frame Report


Click on this option to print static frame report. Following screen appears.



Select the frames to be reported in the report and click OK. Report is made and displayed on the screen



Click on Print test report to print the report. A report such as shown below is printed.


OZONE ENVIRONMENT TEST CHAMBER

REPORT
Page No 1

Test Serial No: 15
Test Date: 09/02/2006
Test Type: Static Test

Test Details
Ozone Concentration (pphm) : 50 pphm Chamber Temp (°C) : 40 °C %RH :
Pre-conditioning : No

Result Modify

Click on result modify button. Click on time interval result, which is to be modified. Following screen appears.

Static Result
Test Serial No. 15

Frame Name	Specimen Name	Elongation %
1C	CLEANPLUS	15

Interval Time (T1) 1(hrs)

Crack Grade
(1-Worst Crack) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
(10-No Crack) ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☒ 10

Type the result and click on save.

View Data

Click on view data button to see the captured results of the test. Following screen appears.

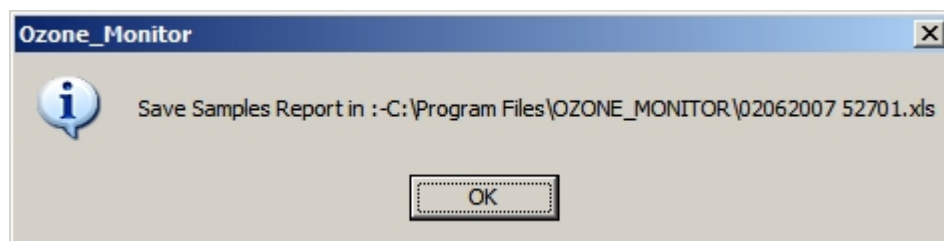
Fill missing data

Sr.No.	Time(In Min.)	Ozone Concentration	Chamber Temperature	%RH	DateTime
584	583	50.00	28.32		10/02/2006 11:39:19 AM
585	584	50.00	28.32		10/02/2006 11:40:19 AM
586	585	50.00	28.32		10/02/2006 11:41:19 AM
587	586	50.00	28.32		10/02/2006 11:42:19 AM
588	587	50.00	28.32		10/02/2006 11:43:19 AM
589	588	50.00	28.32		10/02/2006 11:44:19 AM
590	589	50.00	28.32		10/02/2006 11:45:19 AM
591	590	50.00	28.32		10/02/2006 11:46:19 AM
592	591	50.00	28.32		10/02/2006 11:47:19 AM
593	592	50.00	28.32		10/02/2006 11:48:19 AM
594	593	50.00	28.32		10/02/2006 11:49:19 AM
595	594	50.00	28.32		10/02/2006 11:50:19 AM
596	595	50.00	28.32		10/02/2006 11:51:19 AM
597	596	50.00	28.32		10/02/2006 11:52:19 AM
598	597	50.00	28.32		10/02/2006 11:53:19 AM
599	598	50.00	28.32		10/02/2006 11:54:19 AM
600	599	50.00	28.32		10/02/2006 11:55:19 AM
601	600	50.00	28.32		10/02/2006 11:56:19 AM

Excel Save Cancel

Following options are available.

Excel: Save the data in MS-EXCEL sheet. On clicking this option following screen appears.



Click on OK to continue. The screen shows the Excel sheet in which the data is stored.

Cancel Quit and do not save in EXCEL SHEET.

Specimen details

On clicking Specimen details following screen appears. This is list of the entire specimens for testing in order of specimen name. The cursor is placed on the first specimen.

Name	Product Name	Customer Name
CLEANPLUS	RUBBER	CLEANPLUS
DFX	DFX	DFX
ER	ER	ER
GOR197	GOR197	GOR197
NEW	NEW1	NEW2
PT123	PT123	PT123

Specimen list details and options

Advance Search: This option helps in searching the Specimen details on various methods.

The details in this option are

Find on: You can search the details on the basis of Specimen name, Product Name, Customer Name. Select the search criteria for listing the Specimen details.

Search What: Type the required details to be searched. The required search will depend upon above search on parameter. For example to search details of all the Specimen for a Product name, select Product name as above and then type the name of product to be searched.

List of Specimens (records): This screen is the list of all Specimens. The list contains following columns.

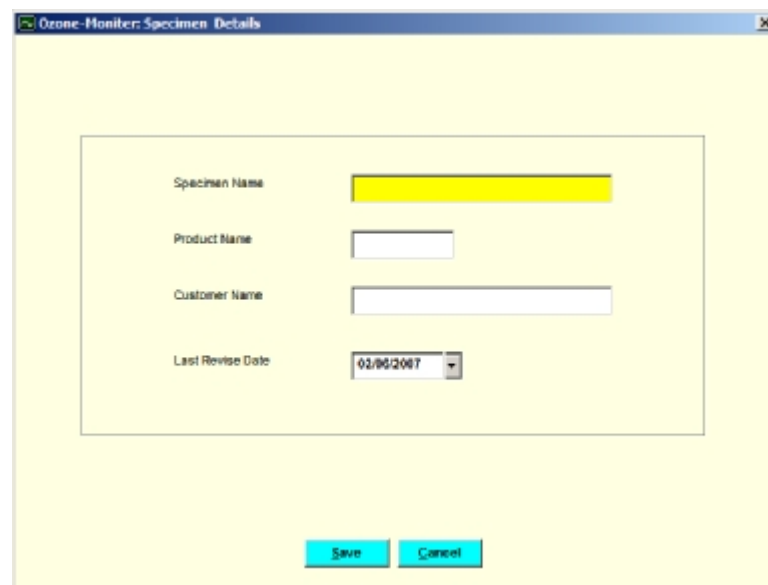
Specimen Name	This is a name of the Specimen.
Product Name	This is the name of the product.
Customer Name	This is name of the customer.

The options available under this option are

- Add** Add a new Specimen details for testing
- Select** Select and shows the current Specimen details.
- Modify** Modify the Specimen details.
- Delete** Delete the current Specimen. You will be asked to reconfirm deletion.
- Comment** Type any required comment about the specimen.

Adding Specimen

Click on **Add** option as shown in Specimen list screen above. Following screen appears.



Following are the various parameters that are required to be filled.

Specimen details

- Specimen name** Type the name of the Specimen.
- Product Name** Type the name of the product.
- Customer Name** Type the name of the customer.
- Last revise date** Type the date of last revision.

After typing all the details the screen shows.

Specimen Name: New Specimen

Product Name: Alpha

Customer Name: S S Industries

Last Revise Date: 02/09/2007

Buttons: Save, Cancel

On pressing [Enter] on the last value the focus is placed on [Save]. On pressing [Save] button the details are saved and following screen is shown.

Specimen Name: New Specimen

Product Name: Alpha

Customer Name: S S Industries

Last Revise Date: 02/09/2007

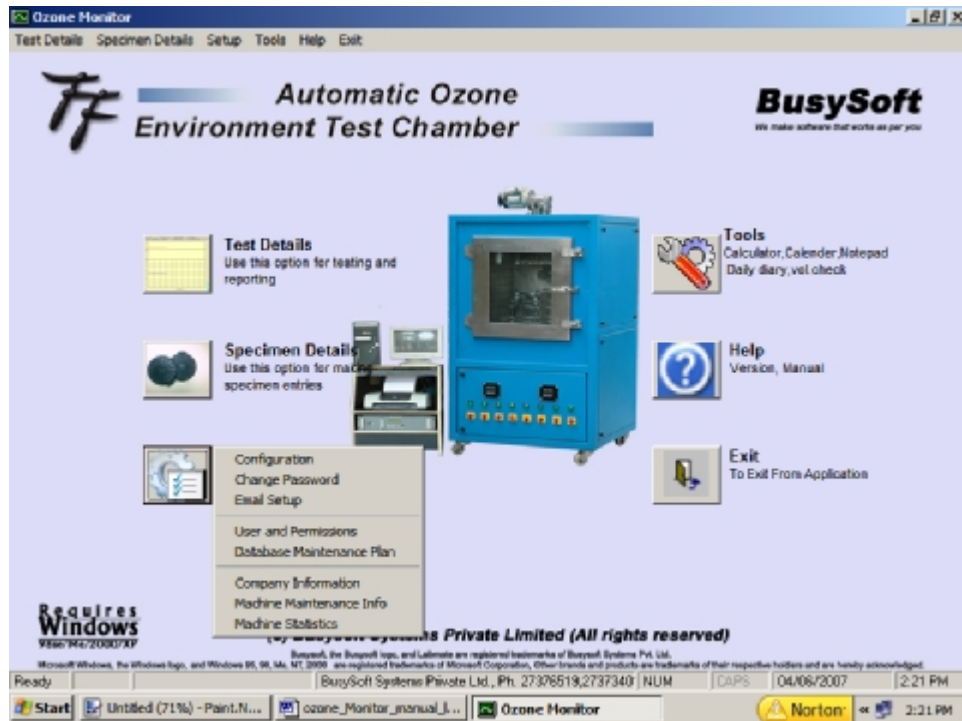
Buttons: Add, Modify, Delete, Previous, Next, Close

The options on this screen are:

- Add** Add a new Specimen details for testing
- Modify** Modify the Specimen details.
- Previous** shows the previous Specimen details.
- Next** Shows the next Specimen details.
- Close** Quit the option and go to main menu.

Setup

The setup options are main parameter setting option of the Ozonesoft package. These options need to be set only once. On clicking this option following screen appears:



The options are

Configuration

Sets master parameters

Change Password

Allows changing of password for the user.

Email setup

Allows setting email.

User and permissions

Setup for users and their access parameters.

Data Maintenance Plan

Sets automatic periodic data backup and compact plan

Company Information

Allows changing of company details

Machine Maintenance info

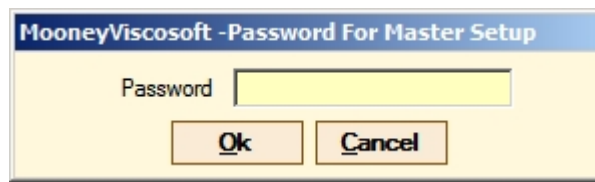
Shows details of Ozone Monitor usage and machine maintenance plan

Machine Statistics

Shows details of Ozone Monitor Machine Statistics.

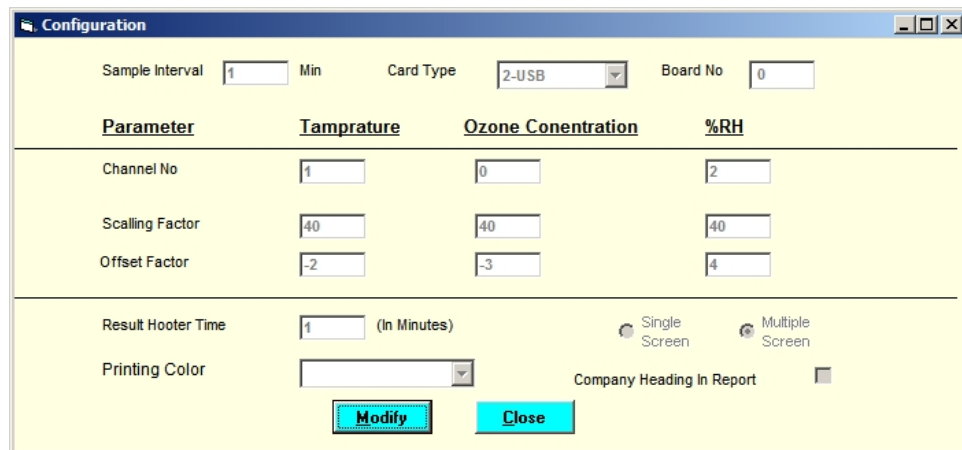
Configuration

This options helps in setting up main master parameters. On clicking this option following password screen appears. Type the password to continue for the next screen. The Master setup parameters are main parameters and should be changed only by authorized users. These values are to be set only once.



A dialog box titled "MooneyViscosoft - Password For Master Setup". It contains a text input field labeled "Password" and two buttons: "Ok" and "Cancel".

On typing the password click on Ok. Following screen appears.



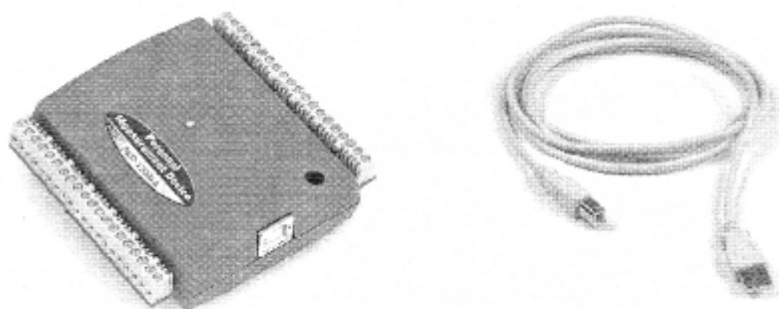
A window titled "Configuration" with various settings for the software. It includes fields for Sample Interval, Card Type, Board No, and a table for parameters like Channel No, Scaling Factor, and Offset Factor. It also has checkboxes for Single Screen and Multiple Screen, and a checkbox for Company Heading In Report. Buttons for "Modify" and "Close" are at the bottom.

Parameter	Temperature	Ozone Concentration	%RH
Channel No	1	0	2
Scaling Factor	40	40	40
Offset Factor	-2	-3	4

The values on this screen are

Sample interval: Time period of taking sample data such as Ozone concentration, RH%, Temperature etc. The value is to be set in minutes. Smaller value means faster data capture.

Card Type: It is a device, which attaches Ozone Monitor with PC. It has a default value 2-USB.



Board No: This is board number of the attached device. Following are the instructions for finding and configuring device number. This is to be done after completing installation procedure of the software as per installation manual.

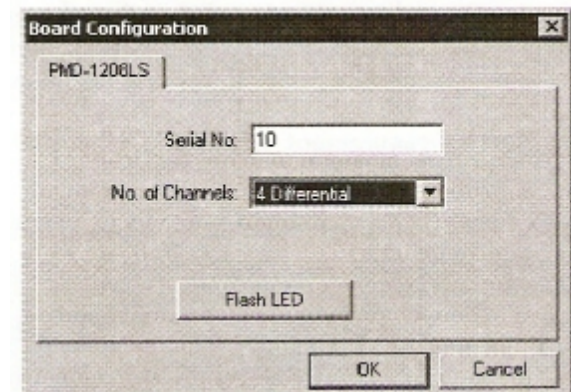
1. Click on **Start > Measurement Computing > InstaCal** to launch the Instacal Software A **Plug and play Board Detection dialog** appears, listing the PMD -1208LS. This dialog only displays when you install the device, or if you reinstall the device.



2. Leave the check box next to the PMD 1208-LS item checked and click OK button to close the dialog. The dialog closes and PMD-1208 LS is added to the **PC board List** on the **instacal** main window.



3. Double click on the PMD-1208LS item listed below **Universal Serial Bus**. The **Board Configuration** dialog appears.



4. Pull down the **No. Of channel list** Box and select **8 Single ended** as the analog input configuration.

5. You can also check the USB Device connected by clicking on Flash LED. A LED on the USB device will flash three times. LED flashing means that the device is connected properly.

Parameters:

Channel No.

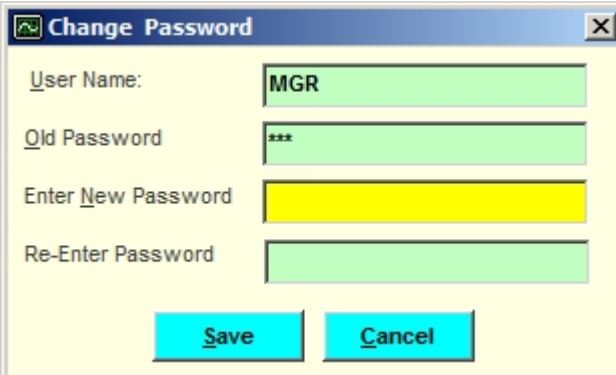
Channel number on the above data device for attaching various sensors. Three channel numbers need to be controlled. These should be changed only by FF.

Temperature	Channel-1
Ozone	Channel-0
% RH	Channel-2

Scaling factors	Scaling factors for various parameters. Three factors need to be set as given below. (Do not change) Temperature 40 Ozone 40 % RH 40
Offset factors	Offset factors for various parameters. Three factors should be changed after proper calibration. Temperature -2 Ozone -3 % RH 4
Result Hooter time	Time for which result-feeding screen is shown along with PC speaker hooter.
Single/Multiple screen	Single screen: Test graph is shown for full testing hours. Multiple Screen: Test graph is shown in parts. Use Previous or Next buttons on the graph to view other portions of the graph.
Printing Color	Single screen: Test graph is shown for full testing hours. Multiple Screen: Test graph is shown in parts. Use Previous or Next buttons on the graph to view other portions of the graph.
Company heading in reports	To company name and address in reports check this option as <input checked="" type="checkbox"/> .

Change password

A user can change the used password for better security. Following screen appears on clicking this option.



The image shows a 'Change Password' dialog box with a yellow background and a blue title bar. It contains four text input fields: 'User Name' (containing 'MGR'), 'Old Password' (containing '***'), 'Enter New Password' (empty), and 'Re-Enter Password' (empty). At the bottom, there are two buttons: 'Save' and 'Cancel'.

Various parameters on this screen are.

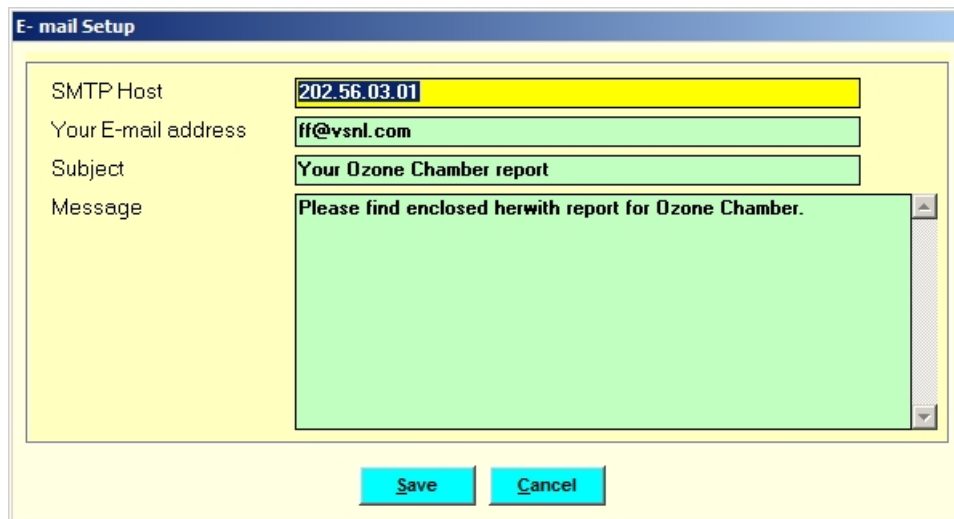
User Name:	Name of the user for which password is to be changed.
Old Password:	Old password for security
Enter New Password:	New password required
Re-Enter Password:	New password should be retyped.

The option buttons on this screen are

<u>Save:</u>	Click this button to save the password. User has to type a new password twice to change the password.
<u>Cancel</u>	Quit and do not save password.

Email setup

This option is for sending reports in emails form to concerned persons. On clicking this option following screen appears.



The 'E-mail Setup' dialog box contains the following fields and controls:

Field	Value
SMTP Host	202.56.03.01
Your E-mail address	ff@vsnl.com
Subject	Your Ozone Chamber report
Message	Please find enclosed herewith report for Ozone Chamber.

Buttons: Save, Cancel

The parameters are

SMTP Host:	Address of the email SMTP Host server
Your email address:	Email address of the sending company
Subject:	Preset subject that appears on email
Message:	Preset Message that appears on email

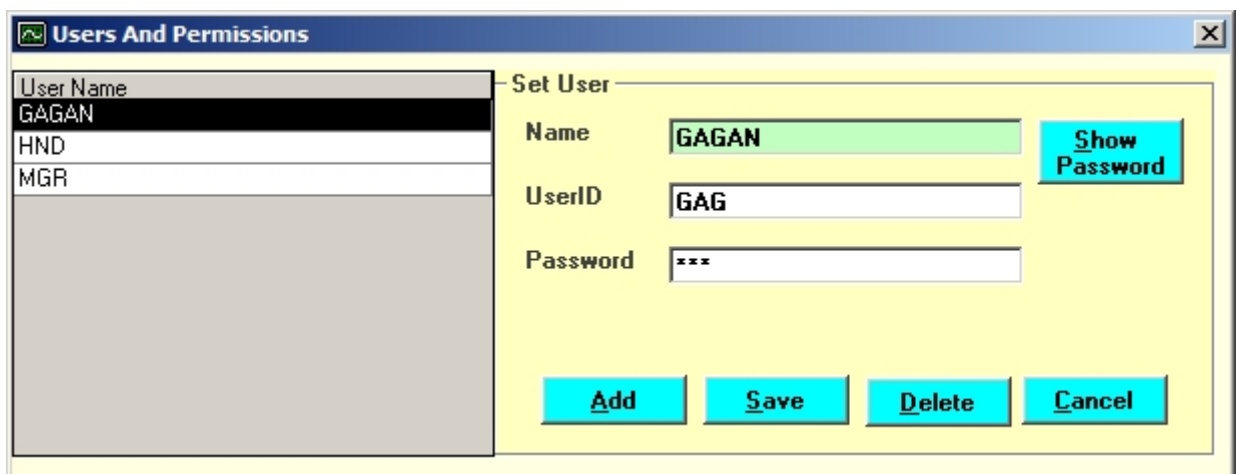
The option buttons on this screen are

Save: Click this button to save the details.

Cancel: Quit and do not save details.

User and permissions

This option is for setting security for users. Only Manager can open this option. The user id for manager is fixed as **MGR** and cannot be changed. On clicking this option following screen appears.



The 'Users And Permissions' dialog box is divided into two main sections:

- User List:** A table showing authorized users.
- Set User:** Fields for configuring a selected user.

User Name
GAGAN
HND
MGR

Name	GAGAN	Show Password
UserID	GAG	
Password	***	

Buttons: Add, Save, Delete, Cancel

The screen shows a list of authorized users on the left. The details shown on this screen are

Name	Name of the authorized user
User ID	ID of the User
Password	User Password

The options in this screen are

<u>Add</u>	Add new user
<u>Save</u>	Save user options parameters
<u>Delete</u>	Delete users
<u>Show Password</u>	Show user passwords
<u>Set security</u>	Sets security parameter for various functions.
<u>Close</u>	Quit this option and go back to previous option.

Add new user

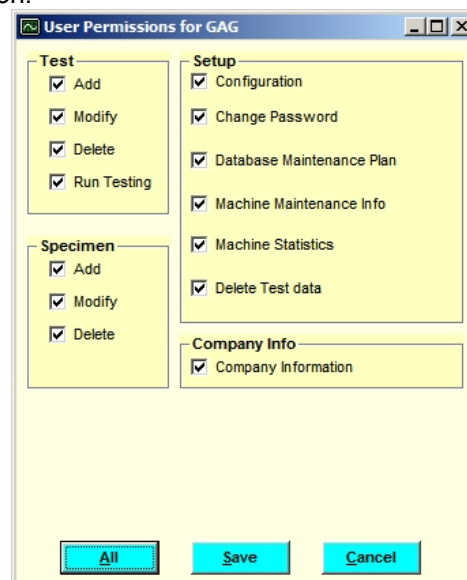
Click on add to add new user in the above screen. Type various parameters as described below.

<u>User Name:</u>	Type the user name to be created
<u>User ID:</u>	Type the ID to be allotted to the user.
<u>Password:</u>	Type a user password. The user can change this password later on.

Select various options, which the user is allowed to work on. Click on save to save the user details.

Set security

Click on set security button to change user permissions. Following screen appears. Click on Check box as ☒ to allow a user on a particular option.



Option buttons available on this screen are

All	Click on this button to allow all the options as allowed.
Save	Save security parameters
Cancel	Do not save the changes and quit.

Database Maintenance plan

This option is used to setup data backup and compact plan. User can set the data backup plan to take automatic backup to avoid data loss due to computer hardware failure. On clicking this option following screen appears.

The screenshot shows a dialog box titled "Database Maintenance Plan". It contains two main sections. The first section is for backup settings: "Last backup taken on" (03/08/2005), "Take backup after" (3 days), "Due on" (06/08/2005), "Give reminder" (Y), and "Forced backup" (Optional). The second section is for compact settings: "Last compact data done on" (04/06/2007), "Compact data after" (1 days), "Due on" (05/06/2007), "Compact data if size more than" (2 MB), and "Give reminder" (Y). At the bottom are "Save" and "Cancel" buttons.

The information on this screen is:

Last backup taken on

Date of last backup taken

Take backup after

Number of days after which next backup is to be taken

Due on

Calculation of next due date

Give reminder

As soon as the user start the program a message showing that the backup is due and the system will take the automatic backup.

The screenshot shows a dialog box titled "Backup Data information". It has a "Backup Due" section with "Last backup taken on" (03/08/2005) and "Backup Due on" (06/08/2005). Below this is a message: "You have to take data backup as per backup option set under database maintenace option. What would you like to do ?". At the bottom are two buttons: "Take Backup Now" and "Take Backup Later On".

Click on Cancel if you do not want to take backup. Click on 'Take Backup Now' to take backup. On completion of backup following screen appears.

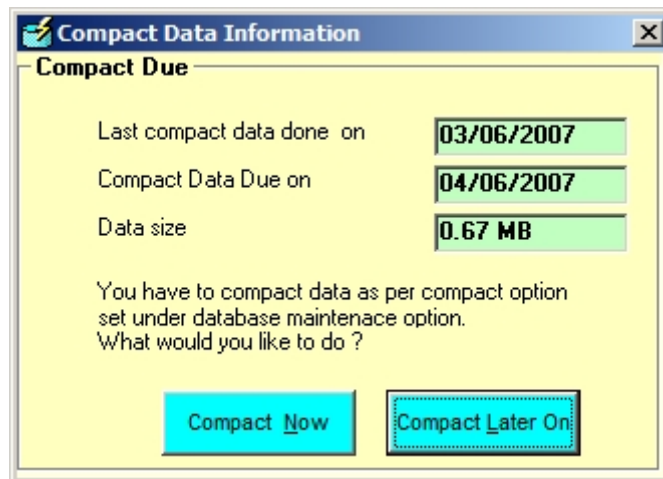
The screenshot shows a dialog box titled "Successful". It contains the text: "Backup data successful" and "Backup file stored in C:\Program Files\OZONE_MONITOR\04062007_1.zip". At the bottom is an "OK" button.

Last compact Done on
software)

Date of last data compact done (This helps in increasing performance of the

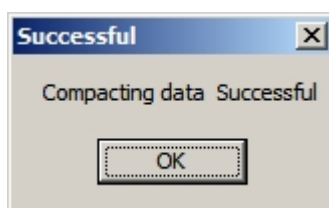
**Compact data after
Due on
Give reminder**

Number of days after which next compact is to be done
Calculation of next due date
As soon as the user start the program a message showing that the compact (repair) is due and
The system will do the compact (repair) automatically.



The 'Compact Data Information' dialog box has a title bar with a close button. The main area is titled 'Compact Due' and contains three text labels with corresponding date and size fields: 'Last compact data done on' (03/06/2007), 'Compact Data Due on' (04/06/2007), and 'Data size' (0.67 MB). Below these fields is a message: 'You have to compact data as per compact option set under database maintenance option. What would you like to do ?'. At the bottom are two buttons: 'Compact Now' and 'Compact Later On'.

Click on Cancel if you do not want to compact data. Click on 'OK' to start compacting. On completion of compact following screen appears.

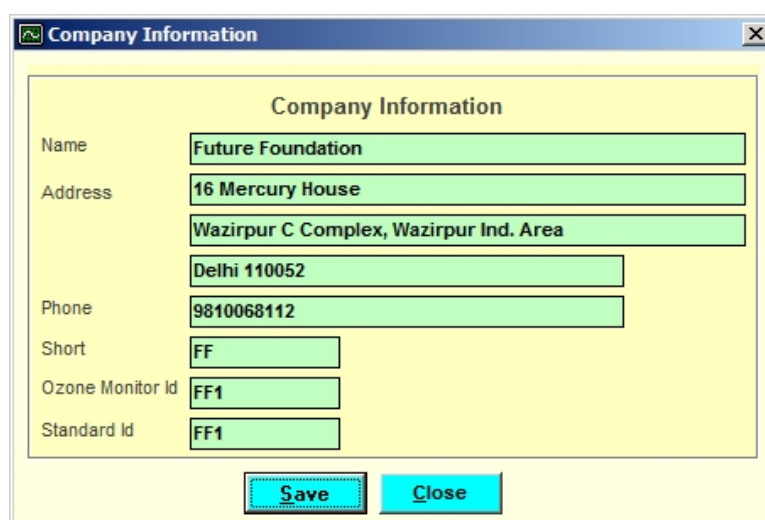


The 'Successful' dialog box has a title bar with a close button. The main area contains the text 'Compacting data Successful' and an 'OK' button at the bottom.

Warning: During compacting and repair or data backup make sure that no power supply failure occurs.

Company Information

This option sets up user company details and parameters. The company details and parameters are shown and printed on various reports. On clicking this option following screen appears.

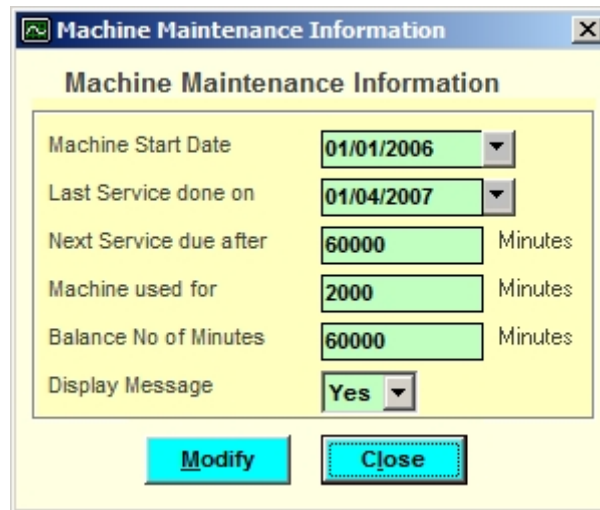


The 'Company Information' form has a title bar with a close button. The main area is titled 'Company Information' and contains several text labels with corresponding input fields: 'Name' (Future Foundation), 'Address' (16 Mercury House, Wazirpur C Complex, Wazirpur Ind. Area, Delhi 110052), 'Phone' (9810068112), 'Short' (FF), 'Ozone Monitor Id' (FF1), and 'Standard Id' (FF1). At the bottom are two buttons: 'Save' and 'Close'.

Type the various parameters and click on **Save** to save the parameters. This is the user company name, address and other details. These details are printed on the reports.

Machine Maintenance Info

This option contains machine maintenance information. On clicking this option following screen appears.



The dialog box titled "Machine Maintenance Information" contains the following fields and controls:

Field	Value	Unit
Machine Start Date	01/01/2006	
Last Service done on	01/04/2007	
Next Service due after	60000	Minutes
Machine used for	2000	Minutes
Balance No of Minutes	60000	Minutes
Display Message	Yes	

Buttons: **Modify**, **Close**

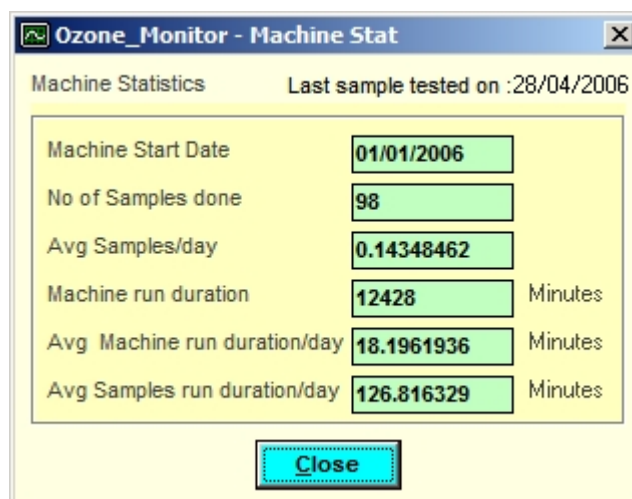
The FF executive fills this information on installation and maintenance. Do not change this information.

The main details are.

Machine start date:	Date of starting the machine.
Last service done on:	Date of last servicing of the machine.
Next service due after	Period after which next service will be due
Machine used for	Period of usage after last servicing done
Balance No of Minutes	Balance duration period for maintenance
Display message	The software will display message as soon as the machine is due for maintenance.

Machine Statistics

This option contains information on daily machine usage. On clicking this option following screen appears.



The dialog box titled "Ozone_Monitor - Machine Stat" displays the following statistics:

Field	Value	Unit
Machine Start Date	01/01/2006	
No of Samples done	98	
Avg Samples/day	0.14348462	
Machine run duration	12428	Minutes
Avg Machine run duration/day	18.1961936	Minutes
Avg Samples run duration/day	126.816329	Minutes

Buttons: **Close**

The Click on **Close** to quit from this information.

Tools

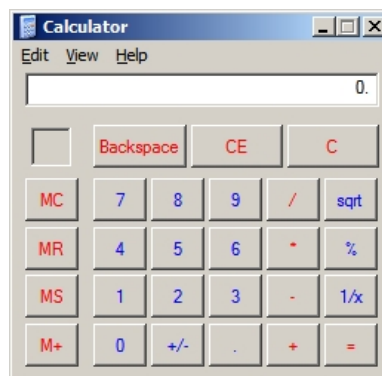
This option is for opening function utilities.



The utilities are

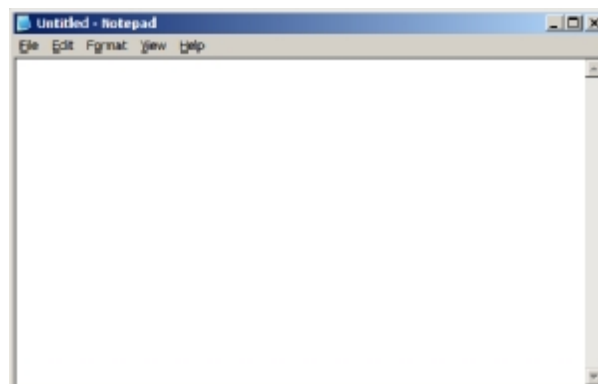
Calculator

Opens a calculator for calculations.



Notepad

Opens a notepad for writing comments.



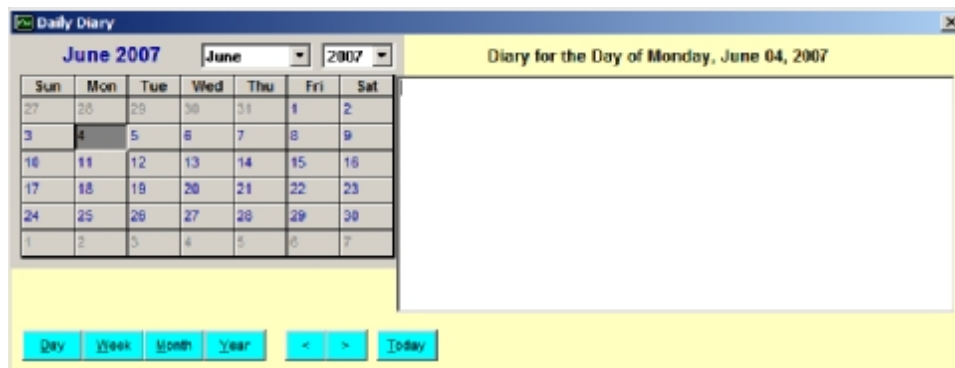
Calendar

Opens a calendar for dates.



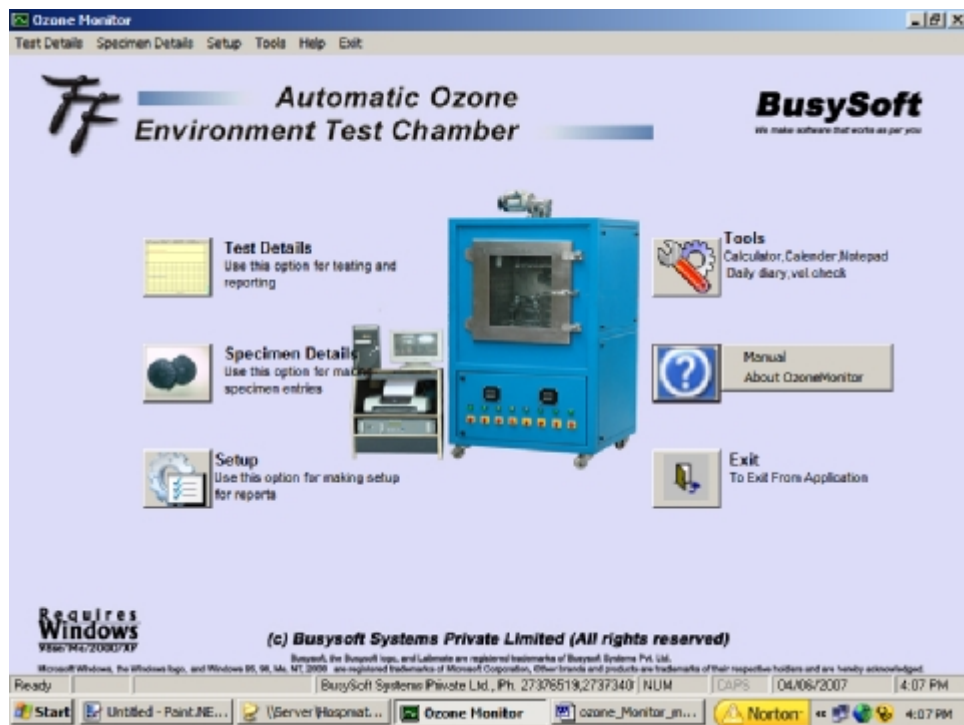
Daily Diary

Opens a diary for noting day-to-day activities.



Help

This option is for help details.



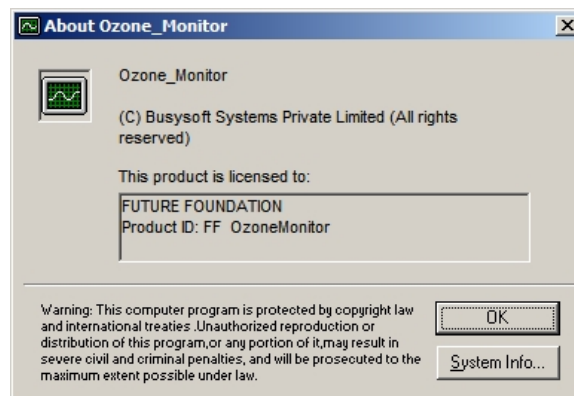
The details are

Manual

Shows this manual in PDF format.

About Ozonemonitor

Shows copyright and version details.



Busysoft

We make software that works as per you

Future Foundation

Address: Mercury House 16 Community Center,
Wazirpur Industrial Area Delhi 110052

Phone: (O)+91-011-27428044 **Fax:** +91-011-27373011 **Mobile:** 9810068112

email: ffinstruments@hotmail.com **Web:** www.ffinstruments.com